CLAIMS

- 1. A magnetic recording medium comprising a substrate, a perpendicular magnetic recording layer, and a soft magnetic layer formed therebetween, wherein the soft magnetic layer has a thickness of less than 100 nm, a magnetic anisotropy in a surface direction, and a Bs·Hc, which is a product of a saturation magnetic flux density Bs and a coercive force Hc, of not less than 79 T·A/m (10 kG·Oe).
- 2. A magnetic recording medium comprising a substrate, a perpendicular magnetic recording layer, and a plurality of soft magnetic layers formed therebetween, wherein the plurality of soft magnetic layers have a total thickness of less than 100 nm, a magnetic anisotropy in a surface direction, and a Bs·Hc, which is a product of a saturation magnetic flux density Bs and a coercive force Hc, of not less than 79 T·A/m (10 kG·Oe).
- 3. A magnetic recording medium as set forth in claim 1, wherein the magnetic anisotropy of the soft magnetic layer is in a radial direction of the substrate.
- 4. A magnetic recording medium as set forth in claim 1, wherein a hard magnetic layer which suppresses a magnetic wall formation in the soft magnetic layer, is disposed between the substrate and the soft magnetic layer.
- 5. A magnetic recording medium as set forth in claim 4, wherein the hard magnetic layer is constituted so as to be magnetized in a direction substantially parallel to the direction of the magnetic anisotropy of the soft magnetic layer.
- 6. A process for producing a magnetic recording medium having a substrate, a perpendicular magnetic recording layer, and a soft magnetic layer formed therebetween, wherein the soft magnetic layer is formed, such that the thickness of the soft magnetic

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layer is less than 100 nm, the magnetic anisotropy thereof is in a surface direction, and a Bs·Hc is not less than 79 T·A/m (10 kG·Oe).

7. A magnetic reading-writing apparatus comprising the magnetic recording medium as set forth in claim 1, and a magnetic head for recording and reproducing information to the magnetic recording medium, wherein the magnetic head is a single magnetic pole head.